Index of Claims

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10/068,292 Examiner

Ann Y. Lam

Applicant(s)/Patent under Reexamination

HIROTA ET AL.

1641

| √  | Rejected |
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| 11 | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| + | Restricted                     |

| Z | Non-Elected  |
|---|--------------|
| - | Interference |

| A | Appeal   |
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| Cla                    | aim            | , Date   |  |                 |          |          |  |  |          |              |                      |  |                 | Çla      | Date     |                |          |  |          |                |        |          |              |          |          |                   |          |          |          |                    |           |
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|                        | ,              | 100/00   | ·  |                 |          |          |  |  |          |              | _                    | 1  |                 |          |          |                |          |  |          |                |        |          |              |          |          |                   |          |          |          |                    |           |
| ल                      | Original       | 1  | 1  | ΙI              |          |          |  |  |          | ल            | Original             | -So/12/2   |                 |          |          | İ              |          | 1  |          |                | ख      | Original |              |          |          |                   |          |          |          |                    |           |
| Final                  | ļ į Ē,         | 14   | 1  |                 |          |          |  | l I.   |          | Final        | <u>.</u>             | 5  | 1               |          | ı        |                |          |  |          |                | Final  | rig      |              |          |          |                   |          |          | ı        |                    |           |
| -                      | Ō              | 1  | ł  |                 |          |          |  |  | 1::::    | -            | 0,                   | 12   |                 | ٠        |          |                |          | 1  |          |                | _      | 0        |              |          |          |                   |          |          |          |                    |           |
|                        | 4              | H  | ╁  | -               |          | +        | +                                      | <del> </del>                                     | -        | ├            | <b>5</b> 1           | 12   | $\vdash$        | -        | -        | -              | +        | +  | $\dashv$ |                |        | 101      | ┢            | Н        | $\dashv$ | $\dashv$          | -        | Н        | $\dashv$ | $\dashv$           | $\dashv$  |
|                        | 1              | <u> </u>   | ╫┈   | ╁               | -        | +        | +                                      | +  | -        |              | 41                   | ├─   |                 |          |          |                |          | +  | -        |                | -      | 102      | <u> </u>     | H        | -i       | -                 |          | $\vdash$ | -        |                    | ᅱ         |
|                        | 4              | -  | ┼  | $\vdash$        | +        | +        | +                                      | +  | -        | <u></u>      | 92                   | -  | $\vdash$        | -        | -+       | -+             | -        |  | $\dashv$ |                |        |          | -            | H        | -        | -                 | _        | Н        | -        | $\dashv$           |           |
| ļ                      | 3              | <b> </b>   | $\vdash$   | Н               | +        |          | ┼                                      | <del>                                     </del> | -        |              | 52<br>53<br>54<br>55 | <u> </u>   |                 |          |          | -+             | +        | +  | -        |                |        | 103      | $\vdash$     | Н        | -        |                   | _        | -        |          |                    |           |
|                        | 1              | <u> </u>   | ╀  | Ш               | +        |          | ╄                                      | $\vdash$   | -        | ⊢—           | 34                   | <del> </del>   | Н               |          | -        | -              | +        | +  |          |                |        | 104      | _            | Н        | -        | _                 |          | Ш        | $\dashv$ | $\dashv$           |           |
|                        | <b>5</b>       | <u> </u>   | <u> </u>   | Ш               | $\perp$  |          | ــــــــــــــــــــــــــــــــــــــ | H  | _:::::   | <u> </u>     | 55                   | <u> </u>   | $\square$       | $\dashv$ | _        | 4              | $\dashv$ | $\dashv$   |          |                |        | 105      | <u> </u>     | Ш        | $\Box$   | _                 | _        | Щ        | $\sqcup$ | $\dashv$           | _         |
|                        | 6              | <u> </u>   | ļ  | $\sqcup$        |          |          | ļ                                      |  | 4::::    |              | 56<br>57             | L  | Щ               | _        | _        | 4              |          |  |          |                |        | 106      | <u> </u>     | Ш        | $\Box$   |                   |          | Щ        | $\Box$   | _                  | _         |
|                        | 7              | V  |  |                 |          | ┸        | <u> </u>                               |  | _ :::::  |              | 57                   |  | Ш               | _        |          |                |          | $\perp \perp$  |          |                |        | 107      | <u></u>      | Ш        |          |                   |          |          |          |                    |           |
|                        | 8              | ا ا  |  |                 |          | _l_      |  |  |          |              | 58                   | V  |                 |          |          |                |          |  |          |                |        | 108      |              |          |          |                   |          |          |          |                    |           |
|                        | 9              | П  |  |                 |          |          |  |  | 7        |              | 59                   | T.   |                 |          |          | П              | Т        |  |          |                |        | 109      |              |          |          |                   |          |          |          | $\neg$             |           |
|                        | 10             | П  |  | F               |          |          |  |  | 7        |              | 60                   | П  | П               |          | $\neg$   |                | $\neg$   |  |          |                |        | 110      |              |          |          |                   |          |          | •        | $\neg$             |           |
|                        | 11             | П  | T  | П               |          | T        |  |  | 7        |              | 61                   | Π  | П               | $\neg$   | $\neg$   | $\neg$         |          |  |          |                |        | 111      | Π            | $\Box$   |          |                   |          |          | $\neg$   | $\neg$             | ᄀ         |
|                        | 12             | T  | T  | $\vdash$        |          | $\top$   | T                                      |  | 7        |              | 62                   | $\sqcap$   | $\Box$          | _        | _        | $\dashv$       | $\dashv$ | $\dashv$   |          |                |        | 112      | $\vdash$     | $\Box$   |          | _                 | $\neg$   | $\vdash$ | $\dashv$ | 一                  | $\dashv$  |
| $\vdash$               | 13             | H  | $\vdash$   | $\vdash$        | -+       | $\dashv$ | 1                                      |  | 1        | $\vdash$     | 63                   | 4  | $\vdash$        | $\dashv$ | $\dashv$ | -+             | $\dashv$ | +-   | $\dashv$ |                |        | 113      | <del> </del> | H        | $\vdash$ | $\dashv$          | _        | Н        | $\dashv$ | $\dashv$           | $\dashv$  |
| <u> </u>               | 14             | ╫  | ╁  | $\vdash$        | $\dashv$ |          | +                                      | ++   |          | <del> </del> | 64                   | ۲  | $\vdash$        | $\dashv$ | $\dashv$ | +              | $\dashv$ | $\dashv$   | -        |                |        | 114      | <del> </del> | Н        |          | $\dashv$          | -        | Н        |          | $\dashv$           | $\dashv$  |
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|                        | 10             | ₩  | $\vdash$   | $\vdash$        |          |          | +                                      | $\vdash$   | - ::::   | }—           | 60                   | -  |                 |          |          | +              | +        | +  | $\dashv$ |                |        | 110      | $\vdash$     | Н        | $\dashv$ |                   | _        | Н        | $\dashv$ | $\dashv$           | $\dashv$  |
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| -                      | 17             | H  | ऻ  | Н               | $\vdash$ |          | -                                      | $\vdash$   | 4        | <u> </u>     | 67                   | <u> </u>   | <b></b>         |          |          | -              |          | -  |          |                |        | 117      | <u> </u>     |          |          |                   |          | Щ        | _        | _                  | _         |
|                        | 18             | Ш  | $oxed{oxed}$                                     | Ш               | $\perp$  |          | 丄                                      | $\sqcup$   | _        |              | 68                   |  | Щ               |          | _        | _              |          | $\perp$  |          |                |        | 118      |              | ·        |          |                   |          | Ш        |          | _                  |           |
|                        | 19             | Ш  | L  |                 |          |          |  |  |          |              | 69                   |  |                 |          |          | $\perp$        |          | $\perp$  |          |                |        | 119      |              |          |          |                   |          |          |          |                    |           |
|                        | 20             | Ш  |  |                 |          |          |  | $\perp \downarrow$                               |          |              | 70                   |  |                 |          |          |                |          |  |          |                |        | 120      |              |          |          |                   |          |          |          |                    |           |
|                        | 21             | П  |  |                 |          |          |  |  | :::::    |              | 71                   |  | l               |          |          |                |          |  |          |                |        | 121      |              |          |          |                   |          |          |          |                    |           |
|                        | 22             | Ш  |  |                 |          |          |  | П  |          |              | 72                   |  |                 |          | П        | П              |          |  |          |                |        | 122      |              |          |          |                   |          |          |          | $\neg$             |           |
|                        | 23             | 11   | Т  |                 |          |          |  |  |          |              | 73                   |  |                 |          | T        | 一              | $\top$   |  |          |                |        | 123      |              |          |          |                   |          |          |          |                    |           |
|                        | 24             | -  | T  |                 |          |          | 1.                                     | Ħ  |          |              | 74                   |  |                 |          | 7        | _              | $\top$   | 11   |          | · · · · ·      |        | 124      |              |          |          | ヿ                 | $\neg$   |          |          | $\neg$             | ヿ         |
|                        | 25             |  |  |                 | $\dashv$ |          |  |  | 1        |              | 75                   | Г  |                 | $\neg$   | $\dashv$ | 一              | $\top$   | $\dashv \dashv$  |          | · · · · ·      |        | 125      |              |          |          | _                 |          | -        |          | $\dashv$           | _         |
| <u> </u>               | 26             | ┢  | $\vdash$   | +               | $\dashv$ |          | +                                      | <del>  -</del>                                   | ⊟::::    |              | 76                   | $\vdash$   | $\vdash$        | -        |          | $\dashv$       | +        | + +  | -        | •              |        | 126      | $\vdash$     | $\dashv$ | _        |                   | -        |          | $\dashv$ | $\dashv$           | $\dashv$  |
| <u> </u>               | 27             | ⊢  | -  | +               |          |          | ╁                                      | <del>     </del>                                 | -        |              | 77                   |  | $\dashv$        | $\dashv$ | $\dashv$ | +              | +        | ╅  | -        | •              |        | 127      |              | $\dashv$ |          | -                 |          |          | -        | $\dashv$           | ⊣         |
|                        | 28             | ⊢  | +-   | H               |          |          | +                                      | <del></del>                                      | -        |              | 78                   |  | -               |          | -        |                | +        | $\dashv$   | -        | ŀ              |        | 128      |              |          |          | $\dashv$          |          |          | $\dashv$ | $\dashv$           | -         |
|                        |                | ┡  | $\vdash$   | 1 1             | $\dashv$ | +        | +                                      | $\vdash$   | - ::::   | _            | 70                   |  |                 |          | $\dashv$ | -+             | -        | +  | -        |                |        | 120      |              | $\vdash$ | $\dashv$ | -                 | $\dashv$ |          | -        |                    | $\dashv$  |
| -                      | 29             | -  | ├  | $\vdash$        |          |          | —                                      | <del>├-</del> ├-                                 |          | <u> </u>     | 79                   | -  | $\dashv$        |          |          | <del> </del> - | -        | +  |          |                |        | 129      | _            | $\Box$   | .        | $\dashv$          | $\dashv$ | -        | $\dashv$ | $\rightarrow$      |           |
| <u> </u>               | 30             | <b> </b>   | ┞_   | $\square$       | _        | +        | ₩                                      |  | -        |              | 80                   | _  |                 |          | 4        | 4              | _        | +  |          |                |        | 130      | _            | Ш        |          | _                 | _        | _        | _        | -                  | _         |
|                        | 31             | 1/   | ļ  |                 |          |          | $\perp$                                | $\perp$  | _        |              | 81                   |  | $\Box$          | _        | _        | _              |          |  | _        |                |        | 131      |              |          |          | _                 | _        |          | _        | _                  | ᅵ         |
| <u> </u>               | 32             | <u> </u>   | <u> </u>   | Ш               |          | -        | $\perp$                                | $\sqcup \!\!\! \perp$                            | _        |              | 82                   | Щ  |                 | _        |          | 4              |          | $\bot$   |          |                |        | 132      | $oxed{oxed}$ |          |          |                   |          |          | _        | $\dashv$           | _         |
|                        | 33             | L  | L_   |                 |          | $\perp$  | $oldsymbol{oldsymbol{\sqcup}}$         |  | _        |              | 83                   |  |                 | .        |          | $\perp$        | $\bot$   |  |          |                |        | 133      | L_           |          |          |                   |          |          |          | $oldsymbol{\perp}$ | ╝         |
|                        | 34             | $ldsymbol{ldsymbol{ldsymbol{ldsymbol{eta}}}$     |  |                 |          |          |  |  | ╝        |              | 84                   | $ldsymbol{ld}}}}}}$ |                 |          |          |                |          | $\perp$  |          |                | ]      | 134      |              |          |          | $oldsymbol{\bot}$ |          | I        |          | $\Box$             |           |
|                        | 33<br>34<br>35 |  |  |                 |          |          |  |  | _]::::   |              | 85                   |  |                 |          |          | $\prod$        |          | $oldsymbol{ol}}}}}}}}}}}}}}}}$ |          |                |        | 135      |              |          | T        |                   |          |          | $\Box$   | $_{ m J}$          | _]        |
|                        | <b>3</b> 6     |  | Г  | П               |          | T        |  |  | 7::::    |              | 86                   |  |                 | $\Box$   | П        |                |          |  |          |                |        | 136      |              |          | •        |                   |          |          | $\neg$   | $\top$             | $\sqcap$  |
|                        | 36<br>37       |  | П  | П               | $\neg$   | $\top$   | П                                      |  | 7        |              | 87                   |  |                 | T        | 寸        | T              | $\neg$   | $\top$   |          |                |        | 137      |              |          | $\neg$   |                   |          | $\neg$   |          | $\dashv$           | $\exists$ |
|                        | 38             |  | П  | П               |          | 1        | $\Box$                                 |  | 7!!!!    |              | 88                   | П  |                 | _        | 寸        | _              | _        | +++  | 1        |                |        | 138      |              | $\vdash$ | 寸        | $\dashv$          | $\dashv$ | $\dashv$ | -        | $\dashv$           | $\exists$ |
| $\Box$                 | 39             | T  | П  | Н               | $\dashv$ | $\top$   | $\Box$                                 | $\vdash$   | <b> </b> |              | 89                   | П  | H               | $\dashv$ | 1        | +              | _        | 11   | $\dashv$ | :::}           |        | 139      | $\Box$       |          | $\dashv$ | $\dashv$          | $\dashv$ | $\dashv$ | _        | $\dashv$           | $\dashv$  |
| $\vdash$               | 40             | <del>                                     </del> | Н  | H               |          |          |  | $\vdash$   | <b>-</b> | <b></b>      | 90                   |  | -               | $\dashv$ | +        | +              | $\dashv$ | +  | $\dashv$ | :::}           |        | 140      | -            | $\vdash$ | -        | 寸                 | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$           | $\dashv$  |
| $\vdash$               |                | $\vdash$   | Н  | H               | $\dashv$ | +        | $\vdash$                               | $\vdash\vdash$                                   | 1        | <b>—</b>     | 91                   | Н  | $\dashv$        | -+       | $\dashv$ | +              | $\dashv$ | +  | $\dashv$ | ::: <b>:</b> } |        | 141      | $\vdash$     | $\vdash$ |          | $\dashv$          |          |          | -+       | $\dashv$           | $\dashv$  |
| $\vdash \vdash \vdash$ | 41<br>42       | -  | <del>                                     </del> |                 |          | +        | ╂┈┤                                    | <del>                                     </del> | -        | <u> </u>     | 92                   | Н  | $\dashv$        | $\dashv$ | $\dashv$ | +              | +        | +  | $\dashv$ | :::            |        | 142      | $\vdash$     | $\dashv$ | $\dashv$ |                   | -        | $\dashv$ | $\dashv$ | $\dashv$           | $\dashv$  |
| $\vdash\vdash\vdash$   | 74             | ├  | $\vdash$   | $\vdash$        | +        | +-       | 1                                      | <del>                                     </del> | -        | <u> </u>     |                      | Н  | $\dashv$        | $\dashv$ | $\dashv$ | +              |          | +  |          | ::: <b> </b>   |        | 142      | Н            | -        | -        | -                 | $\dashv$ | ᅱ        | $\dashv$ | $\dashv$           | $\dashv$  |
| <b> </b>               | 43             | -  | $\vdash$   | $\vdash \vdash$ | -        | _        | $\vdash$                               | $\vdash\vdash$                                   | -        |              | 93                   |  | $\dashv$        |          |          |                | - -      | +  |          |                |        | 143      | Н            | -        |          |                   |          |          | -        | $\dashv$           | 4         |
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|                        | 45             | <u> </u>   | <u> </u>   | Ш               | _        | _        | 1                                      | $\sqcup \bot$                                    | 4        | L            | 95                   | Щ  | _               | _        | _        | _              | $\bot$   | $\bot \bot$  | _        | ::::           |        | 145      |              |          |          |                   |          |          |          | _                  | _         |
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|                        | 47             |  |  |                 |          | ┸        |  |  | أأأأأ    | L            | 97                   |  |                 |          |          |                | $\perp$  |  |          | :::[           |        | 147      |              |          | I        |                   | I        | [        | ⅃        |                    |           |
|                        | 48             |  |  |                 |          |          |  |  |          |              | 98                   |  |                 | $\Box$   |          | $\Box$         | $\Box$   |  |          | [              |        | 148      |              |          |          |                   | П        |          | $\neg$   | 丁                  | $\neg$    |
|                        | 49             |  |  |                 |          |          | П                                      |  | 7        |              | 99                   |  | $\Box$          | 寸        | 寸        | $\neg$         | 1        |  | $\neg$   | iiit           |        | 149      |              |          |          | $\neg$            | コ        | 一        | ヿ        | $\dashv$           | $\neg$    |
|                        | 50             | Т  | П  | $\dashv$        | $\neg$   | 十        | $\vdash$                               | $\vdash$   | 7        | $\Box$       | 100                  |  | _               | _        | _        | 十              | $\neg$   | 1 1  |          | <b>:::</b>     | $\neg$ | 150      | П            |          | 1        | _                 |          | -        |          | $\dashv$           | $\dashv$  |
|                        |                | _  |  | -               |          |          |  |  | <b></b>  |              |                      |  |                 | 1        | 1        |                |          |  | — ∙      | r              |        |          |              |          |          |                   |          |          |          |                    |           |